NEW WAVE ENDO			
TITLE Gamma Sterilization Re	port- Dose Substan	tiation - M-Close™ Kit	Page 1 of 15
DOCUMENT NO: RPT-0025A	REVISION: 01	CRCO: 210510-1	EFF DATE: 20 MAY 2021

1. Purpose

1.1. The purpose of this report is to document the report of the execution of PTL-0025A for the substantiation of the sterilization dose for the gamma radiation sterilization process for the M-CloseTM Kit (see Attachment A) that is manufactured by New Wave Endo.

2. Scope

- 2.1. New Wave Endo provided the M-Close Kit (REF 27-101) in its normal packaging configuration including the sterile barrier pouch and single unit boxing at the time of sterilization. In preparation for a planned family of kits, all of which will include the M-Close Kit plus various combinations of an anesthesia needle, extension microtubing set, and optional pre-sterilized and separately packaged accessories that will not be irradiated by gamma radiation, the M-Close Kit pouch subjected to the Gamma Sterilization Protocol (PTL-0025A) included the M-Close Kit handle assembly, guidewire and guidewire advancer, the anesthesia needle and a two-foot length of extension micro-tubing.
- 2.2. The verification dose was delivered by Steris's Gamma Radiation facility located at: 2500 Commerce Drive, Libertyville, IL 60048
- 2.3. Nominal sterilization dosing in preparation for Bacteriostasis/Fungistasis testing was performed by Steris's Gamma Radiation facility located at 1800 Industrial Drive, Libertyville, IL 60048.
- 2.4. Microbiological testing was performed by LGGS: 15370 CR 565A, Suite A, Groveland FL 34736
- 2.5. The M-Close Kit will be released for routine sterilization following:
 - Dose substantiation as addressed in the protocol and this report,
 - Determination of the maximum acceptable dose (see Protocol PTL-0025B),
 - Performance qualification (PQ) (see Protocol PTL-0025C).

3. References

Document Number	Document Title
ANSI/AAMI/ISO11137- 1:2006/(R)2010	Sterilization of healthcare products - Radiation - Part 1: Requirements for development, validation, and routine control of a sterilization process for medical devices
ANSI/AAMI/ISO 11137- 2:2013	Sterilization of health care products - Radiation - Part 2: Establishing the sterilization dose
ISO 13004:2013	Sterilization of health care products - Radiation - Substantiation of a selected sterilization dose: Method VDmax ^{SD}
ANSI/AAMI/ISO 11737- 1:2006	Sterilization of medical devices- Microbiological methods - Part 1: Determination of a population of microorganisms on products
ANSI/AAMI/ISO 11737- 2:2009	Sterilization of medical devices - Microbiological methods-Part 2: Tests of sterility performed in the definition, validation and maintenance of a sterilization process
PTL-0025B	Radiation Sterilization - Process Definition (Maximum Acceptable Dose) - M-Close
PTL-0025C	Radiation Sterilization - Performance Qualification M-Close Kit (Dose Map)

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4. Background and General Information

- 4.1. Process and Equipment Characterization
 - 4.1.1. The sterilization dose for M-Close Kit™ is being determined based on substantiation of 30 kGy using the VDmax30 method as described in ANSI/AAMI/ISO TIR13004:2013. Equipment to deliver and verify the consistency and uniformity of the applied dose for each lot is the responsibility of the sterilization facility.
 - 4.1.2. Upon successful substantiation of the 30 kGy sterilization dose, the product intended for release for human or animal use will be irradiated using gamma irradiation between the minimum dose (30 kGy) and the maximum allowable dose (50 kGy once established).

4.2. Product Definitions

- 4.2.1.The M-Close Kit consists of a handle which is a suture delivery system, a 24" micro-bore tubing extension set, a guidewire and a guidewire feeder, that has been designed by New Wave Endo. It also includes an FDA cleared 20 Ga local anesthesia needle as a convenience for the user. It will be provided as a sterile single-use device for human use. A prepackaged, pre-sterilized, single use, FDA cleared bandage for use after the surgical port is closed is included with kit, but it is added to the unit box after return from the sterilization process and prior to commercial distribution.
- 4.2.2.New Wave Endo has previously conducted a sterilization substantiation for the sterilization dose of 30 kGy for the M-Close which was documented in RPT-0013A. Although, not previously identified as a "kit" in the prior validation report, it included the same elements as the current kit.
- 4.2.3.This is the only suturing product that New Wave Endo currently produces. Other members in the product family may include a different anesthesia needle, microtubing extension set, and other accessory items, pre-sterilized, separately packaged, and provided as a convenience. These additional items will not be subjected to gamma radiation, but added to the unit box, or the 5-unit box post sterilization.
- 4.2.4.If New Wave Endo develops other products and intends to use gamma sterilization at the same or other substantiated dose, this document may be modified to identify the product, process and irradiation levels for each product in tabular format for clarity.

4.2.5.Representative Product

Since the M-Close Kit is the only product in the product family at the current time, it will be the representative product for substantiating the sterilization dose. The components are combined to form the M-Close Kit, so all these components are tested together. This will be a sample item portion (SIP) of one (1). In configurations where the anesthesia needle or the micro-tubing extension is shorter or not included in the sterile package, the results of the validation will still be valid since the only effect of the subcomponent emissions will be to reduce the bioburden and the product density subjected to the same validated dose of gamma radiation.

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5. Sample Requirements

5.1. Reference Table 1 for a summary of samples used.

Table 1: Sample Sizes			
Testing	M-Close™ Kit (REF 27-101)		
Bioburden Testing	10 from each: Lot C1521-1,		
blobarden resuing	Lot C1521-2, Lot C1521-3		
Bioburden Recovery	5 units drawn from bioburden test units Lot # C1521-1 post testing via exhaustive method		
Test of Sterility Validation (B/F)	3 from Lot C1521-4		
Verification Dose/Tests of Sterility	20 from Lot # D0521		

6. For Verification Dosing

- 6.1. Dosimeters accurate in a minimum range of 5 -35 kGy.
- 6.2. The load configuration for verification dosing consisted of the product samples being shipped in a corrugated box 13" x 13" x 13" containing three 5-unit boxes. The 5-unit boxes were removed from the shipping box for irradiation at the verification dose, replaced and forwarded directly to the sterility test lab. Although the protocol only requires 10 test units for sterility, the extra five units were sent as a backup in case there was a laboratory error resulting in possible contamination of 1 or more units.

7. Responsibilities

- 7.1. New Wave Endo:
- Prepared the protocol.
- Reviewed and approved the protocol.
- Prepared the test samples.
- Packaged the test samples.
- Shipped test samples to the locations specified in this protocol.
- Coordinated the testing of the samples.
- Reviewed test data.
- Prepared the final report.
- Reviewed and approved the final report.
- 7.2. Bioburden and Sterility Test Laboratory
- Performed the bioburden testing.

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- Performed the tests for bioburden recovery, B/F sterility validation, and test of sterility.
- Provided test results.
- Will perform quarterly dose audit tests for bioburden (10 units) and sterility (10 units).

7.3. Sterilization Company

- Irradiated the test samples at the verification dose specified on the form (±10%)
- Ensured that all equipment was calibrated and maintained in accordance FDA QSR, ISO 13485, and ISO 11137 requirements.
- Provided dose documentation.
- Shipped irradiated test samples directly to the Sterility Test Laboratory.

8. Instrumentation Calibration / Certification

- 8.1. All the critical instrumentation for laboratory testing were calibrated per Bioburden and Sterility Test Laboratories Standard Operating Procedures and traceable to the National Institute of Standards and Technology (NIST), when applicable.
- 8.2. All the critical instrumentation (dosimeters, timing devices, gauges, etc.) for the irradiator and ancillary equipment were calibrated per Sterilization Company's Standard Operating Procedures and traceable to the National Institute of Standards and Technology (NIST), when applicable.

9. Procedure

- 9.1. M-Close™ Units (REF 27-101)
 - 9.1.1.A total of 30 unsterilized M-Close Kit units from three (3) different lots: 10 from lot C1521-1, 10 from lot C1521-2, and 10 from lot C1521-3, were manufactured and packaged by New Wave Endo per the defined manufacturing process procedures for bioburden testing. These procedures are identified in the corresponding Device History Records.
 - 9.1.2. Three (3) additional samples from lot C1521-4, part of a larger lot produced for design verification activities, were sterilized by gamma at a minimum dose of 30 kGy at the sterilization facility in Libertyville IL. These units were used for Bacteriostasis/Fungistasis method suitability testing.
 - 9.1.3.Ten units of lot D0521 were sent to the sterilization facility in Libertyville IL and were irradiated at the target verification dose of $11.30 \pm 10\%$; i.e. between 10.20 and 12.40 kGy. The actual applied dose was between 10.29 and 10.65 kGy which meets the target requirements for dose verification. An extra 5 units were sent as a backup in case of laboratory error post irradiation.
 - 9.1.4.Ten additional unsterilized units from lot D0521 were sent directly to the bioburden test facility for bioburden testing.
 - 9.1.5. These 53 samples were shipped to the same Test Laboratory at various times during the validation period for bioburden, correction factor, bacteriostasis/fungistasis, and sterility test activities.

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9.2. Bioburden Testing

- 9.2.1.The Bioburden and Sterility Test Laboratory performed the bioburden validation using the repetitive recovery method per ISO 11737-1 to determine the recovery efficiency of the method. From the recovery efficiency, a bioburden correction factor was determined. Five sample units were used to determine the bioburden recovery factor.
- 9.2.2. Following the bioburden validation, 10 M-Close Kit samples from each of three lots were tested for bioburden using the method validated for measuring aerobes and fungi colony forming units, CFU's.
- 9.2.3. Since the M-Close Kit does not contain liquid and does not have areas that are not exposed to oxygen, obligate anaerobes are not likely to be present in the bioburden, so testing for anaerobes was not included. Other microorganisms such as spore-formers are a subset of aerobes or anaerobes and would be captured in the bioburden testing so further characterization is not required.
- 9.2.4.The bioburden count was determined from 10 samples from each of three lots, averaged, and was then corrected using the correction factor determined in the validation. The verification dose could have been obtained from Table 5 of ANSI/AAMI/ISO 11137- 2:2013, i.e. 21.3 kGy for a bioburden of 103.6 CFU to ensure and Sterility Assurance Level of 10⁻⁶. However, to provide greater assurance of sterility, an overkill dose of 30 kGy was chosen for the M-Close Kit. This higher sterilization dose was selected and substantiated following the procedures in ISO 13004: 2013.
- 9.3. Verification Dose Experiment and Tests of Sterility
 - 9.3.1.Upon determination of the verification dose, New Wave Endo shipped 15 M-Close Kit samples from a lot to the Irradiator for dosing at the verification dose (11.3 kGy ±10%) determined in ISO 13004: 2013, Table 9. The test for sterility requires only 10 units but the additional 5-units were irradiated at the low dose to provide a backup in case there was an error at the sterility testing facility requiring additional replacement samples.
 - 9.3.2. The growth medium for both the B/F and Sterility Test was a soybean casein digest medium (SCBD), covering the entire device, incubated at 22.5 + 2.5°C for a duration of 5 days, per the protocol.

10. DATA ANALYSIS

10.1. The average Recoverable Aerobic and Fungi CFU's for the three bioburden test lots are shown in Table 2 below:

TABLE 2			
Lot	Average Aerobic CFU	Average Fungi CFU	Average Total CFU
C1521-1	47.6	17.2	64.8
C1521-2	42.1	18.5	60.6
C1521-3	134.2	51.2	185.4
Average	74.63	28.97	103.6

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- 10.2. ISO 13004:2013, paragraphs 6.2.5.2 and 6.2.5.3 provides a method of evaluating the overall average bioburden in cases where any one of the batch (i.e.lot) averages is two or more times greater than overall average. As seen in Table 2, Lot C1521-3 has the highest total bioburden at 185.4 CFU's. Twice the average bioburden of 103.6 CFU's is 207.2. Thus, each of the batch average bioburdens is less than two times the overall average bioburden and, following 6.2.5.3-(b), the overall average bioburden, 103.6 CFU's, should be used to determine the VD_{max} SD.
- 10.3. Table 3 in ISO 13004:2013 provides upper limits for average bioburden for a given sterilization dose. For average bioburdens between 45 and 220 CFU's (with an SIP = 1.0), which is the range where the 103.6 CFU overall average bioburden falls, the standard selected sterilization dose would be 22.5 kGy. However, an overkill dose may be applied to provide extra assurance of sterility against unexpectedly high bioburdens. New Wave Endo has opted to use the overkill method of sterilization by standardizing on 30 kGy doses for production runs of gamma irradiation in the past and will continue to do so for the M-Close Kit family of products based on the current configuration of the test sample lots.
- 10.4. A reasonable question to address is what may have contributed to the higher reading for the third lot, C1521-3, compared to the two other lots used in the validation. There are three possible contributing factors to the higher reading.
- 10.4.1. Although assigned the same lot number, there were 10 Guidewire Advancer housings that were molded at the same facility and on the same equipment as the other housings which were made from Polycarbonate (PC) while the balance were formed from ABS. Both at the factory and at New Wave Endo, it is natural and likely that extra handling was involved during manufacturing, packaging, receipt, and evaluation of the alternative material compared to the larger ABS run for the other two test lot components.
- 10.4.2. Secondly, it was noticed that engineering at one point unwittingly used several of the M-Close handle assemblies from the C1521-3 to check a needle bending fixture in the controlled room prior to packaging. The extra handling may have contributed to three extra high readings for bioburden in that lot.
- 10.4.3. Finally, just prior to the third lot being removed from the controlled room following packaging, a decision to evaluate a small length of black suture material thread being knotted to the guidewire loop was made. The pouches were opened, ten six-inch lengths of suture were cut to length, knotted in place one to each guidewire in the lot, the pouch was resealed, and the seal was visually inspected. The roll of suture thread had been received and evaluated for potential suitability for use by engineering and marketing outside the controlled room recently before this time but was not handled with gloves in the controlled room until just prior to final packaging. This treatment represents a worst-case scenario in terms of mishandling of the product, but even so, it had a minor impact on the overall average bioburden and an even smaller resultant irradiation increase used in the verification dose.

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11. Deviations

There were no deviations to the protocol.

12. Acceptance

- 12.1. The Bacteriostasis/ Fungistasis Test showed that the M-Close Kit samples do not inhibit microbiological growth.
- 12.2. The test of sterility showed that none of the 10 M-Close Kit samples, all of which included the suture "tail," subjected to the verification dose exhibited any growth. Thus, the sterilization dose is substantiated. None of the spare five verification dose units were used by the laboratory and these were returned to New Wave Endo and used for marketing demonstrations or R&D.
- 12.3. The completion of the sterilization validation will occur subsequent to the successful completion of PTL-0025B, Radiation Sterilization Process Definition (Maximum Acceptable Dose) M-Close Kit and PTL-0025C, Radiation Sterilization Performance Qualification M-Close.

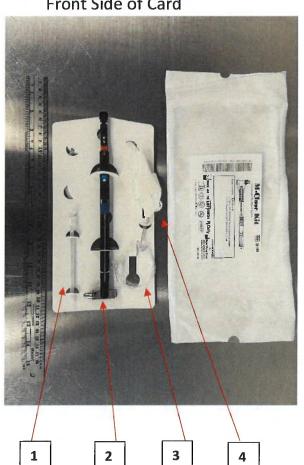
13. Attachments

- A. M-Close Kit (Image)
- B. DHR's for the M-Close Kit lots used for testing
- C. Bioburden Report
- D. B/F Irradiation Record
- E. B/F Report
- F. Bioburden Recovery Final Report
- G. Verification Dose Applied
- H. Sterility Test Result

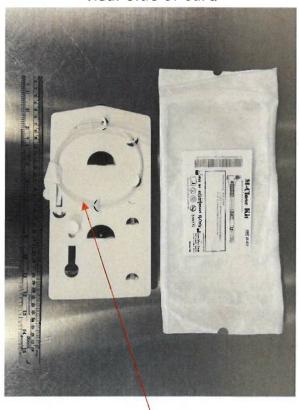
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ATTACHMENT A M-Close Kit (Images)

Front Side of Card



Rear Side of Card



- 1. 20ga Anesthesia Needle
- 2. M-Close Handle Assembly
- 3. Extension Set
- 4. Guidewire Advancer Assembly
- 5. Guidewire in Transport Tube

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ATTACHMENT B

DHR's for the M-Close Kit Lots Used for Testing Bioburden, Recovery Factor, B/F and Sterility (48 pages)



LOT NUMBER: C1521-1

(Indicate partial qty, ex 1/6, 5/6, 7/12 etc.)

PRODUCT DESCRIPTION:	M-Close Kit						
CATALOG/ ITEM NUMBER:	27-101						
START DATE: (DDMTHYYYY)	15 MAR 2621	5 MAR 2621 QUANTITY					
COMPLETION DATE: (DDMTHYYYY)	16 MAR 2021	ORDERED:	10				
EXPIRATION DATE: (DDMTHYYYY)		COMPLETED:	10				
(Lot expires 12 month	hs from assembly completion)	Outer (60 Units) Boxes					
24		FULL	PARTIAL				
Ster	rilization: Gamma	N/A	N/A				

RELATED DOCUMENTS DOCUMENT REV TITLE MP-0002 Label Printing Procedure 1 MP-0011 2 Sealing Product Pouches MP-0012 6 M-Close Pouch and Label MP-0013 5 Needle-Plunger Assembly Procedure MP-0015 6 M-Close Upper Body Assembly MP-0017 8 M-Close Assembly MP-0018 2 M-Close 60 Unit Shipping Assembly MP-0019 2 TS-0006 DYMAX UV Light Source Set-up MP-0020 1 Ultrasonic Cleaning MP-0023 2 Micro Tubing Assembly MP-0026 2 Bond Guidewire Loop MP-0027 3 Body Upper Pre-work MP-0028 Knob & Arm Assembly 4 MP-0030 2 Lower Halves Pre-work MP-0032 2 T-Bar B Assembly MP-0033 1 Guidewire Advancer Assembly MP-0038 1 Guidewire Cinch Assembly QP-0001 5 M-Close Final Inspection Procedure

Package Peel Test Procedure

M-Close Lot Release Test Procedure

Visual Inspection - Foreign Matter

Visual Inspection - Pouch Heat Seal

Needle Plunger Pressure Leak Testing Procedure

Manufacturing Area Practices

	IN PROCESS OPERATIONS SEQUENCE										
ASSEMBL	Y OPERATION		INSPECTION CRITERIA								
ASSEMBLY OPERATION	PROCEDURE	INSPECTION DESCRIPTION	PROCEDURE TITLE	QUANTITY	FREQUENCY						
Pouch Labeling	MP-0002	Label orientation, location, legible, lot# and use by date correct.	Label Printing Procedure	100%	At start of operation until completion						
Unit Box Assembly	MP-0018	Label orientation, location, legible, lot# and use by date correct. Pouch, IFU, Accessory enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion						
5-Unit Box Assembly	MP-0018	Label orientation, location, legible, lot# and use by date correct. 5 unit boxes enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion						

QP-0004

QP-0008

QP-0010

QP-0011

QP-0012

SOP-0054

1

4

1

1

1



LOT NUMBER: C1521-1

Boxing	MP-0018	60 units/box, labels applied, Gamma dot in outer shipper	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion
--------	---------	--	---	------	--

				PRODUCT TR	AVELERS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Work Order#- WO-	Work Order # - WO-	Work Order# - WO-	Work Order# - WO-
DRW-0086	M-Close Pouched Assembly	3	1	21-03-009			
DRW-0052	M-Close Final Assembly	5	1	21-03-006			
DRW-0090	M-Close Shipping Assembly	3	1	5,1403-013			
DRW-0109	20ga Needle Assembly	1	1	AN 19002-2 20-10-018 21-10-018 21-03-010 ACCESSORY C	D +=		
DRW-0113	Micro Tubing Assembly	2	1	20-10-018	[MIS PAINTE	202/	
DRW-0191	Guidewire Advancer Ass'y	1	1	21-03-010	NOTE: THESE U	VITS ARE ABSH	pusings.
				ACCESSORY C	ONTENTS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Lot#	Use by Date	Lot #	Use by Date
DRW-0115	Covidien PHMB Telfa Pad	1	1	N/A	N/A		
					er.		

		S	TERILE E	BARRIER	RINSPE	CTION	(add mo	re rows as	s needed)	
					NEW W	AVE END	O SEAL			
Date Time	QTY	Settings (265°F@		Lbs./Inch			urements /in pass)	Comments	Inspector	
			2.5 sec.) (Yes / No)	Left	Middle	Right	PASS	FAIL		Initials:
17 MAR	2:30	1	YES	2.86	2.94	3.14	P			ms
					POUCH	VENDO	R SEAL			
Date Tested	Time Tested	QTY	Chevron Left	Chevron Right	Left	Right	PASS	FAIL	Comments	Inspector Initials:
-										
	l		VISUAL II	NSPECTIO	ON FOREI	GN MAT	ER PRO	CEDURE: QI	P-0009	
Date	Time	QTY	PASS	FAIL			(Comments		Inspector Iniţials:
16MAR2021	1-15 PM	10								26



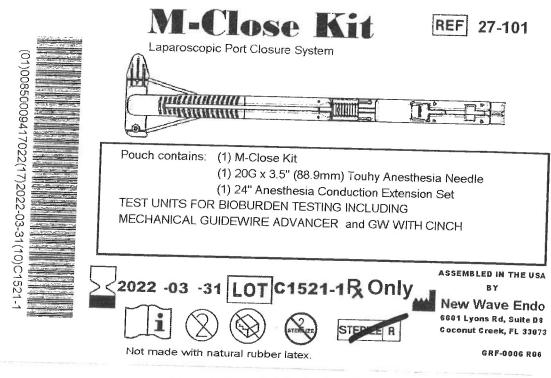
LOT NUMBER: C1521-1

FINA	AL INSPECTI	ON			
DESCRIPTION	PROCEDURE TITLE	SAMPLE SIZE	RES PASS	ULTS FAIL	PERFORMED BY:
Verify that pouch labels are legible and include the following: Correct lot number, correct expiration date, bar code correct quantity as specified in label. All information should match this DHR.	QP-0008	100%	P		ms
Verify pouch contains (1) M-Close Handle Ass'y, 20ga needle, tubing assembly, guidewire advancer assembly with guidewire. Verify that applicable labels are on the unit boxes. Verify that applicable labels are on shipping boxes.	QP-0008	100%	P R 202	/	ms
Attach form FM-0013, M-Close Lot Release.	QP-0008	N/4	N	1/A7	ms.
Attach copy of Irradiation	Report to DHR.				01/4
Attach copies of all labels used to pages 5 and 6 (pouch, single unit box, 5-unit box, 60-unit box) and scan the barcode for each label on the corresponding line.	Pouch label: Single unit box lab 5-unit box label: 60-unit box label:	rel: .			,
Comments: **ENT FOR BI	d-BURDEN T	-'EST IN 6	E		

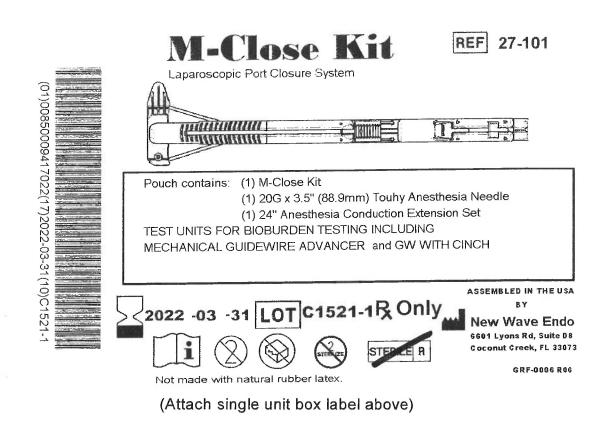
(Add additional pages if inspections exceed the space available above)



LOT NUMBER: C1521-1



(Attach pouch label above)





LOT NUMBER: C1521-1

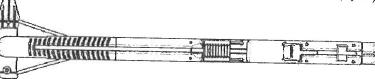


M-Close Kit

27-101

Laparoscopic Port Closure System

41175



Pouch contains: (1) M-Close Kit

(1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle

(1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR BIOBURDEN TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

2022 -03 -31 LOT C1521-1 R Only

Not made with natural rubber latex.

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

ASSEMBLED IN THE USA

GRF-0006 R06

(Attach 5-unit box label above)



LOT NUMBER: C1521-2

	r /		
PRODUCT DESCRIPTION:	M-Close Kit		
CATALOG/ ITEM NUMBER:	27-101		
START DATE: (DDMTHYYYY)	13MAR 2021		QUANTITY
COMPLETION DATE: (DDMTHYYYY)	16 MAR 2021	ORDERED:	10
EXPIRATION DATE: (DDMTHYYYY)	21 mg- 19 MAR 2021	COMPLETED:	10
(Lot expires 12 mont	hs from assembly completion)	Out	ter (60 Units) Boxes
Char	ili-ation. Comm.	FULL	PARTIAL
Ster	rilization: Gamma	N/A	N/A
		(I)	ndicate partial gtv. ex 1/6, 5/6, 7/12 etc

						N/A	N/A			
						(Indicate p	oartial qty, ex 1/6, 5/6, 7/12 e			
				RELATED DO	OCUMENTS					
DOCUME	ENT	F	REV		TIT	LE				
MP-000	02		1		Label Printir	g Procedure				
MP-001	11	<u> </u>	2	Sealing Product Pouches						
MP-001	12		6		M-Close Pou	ch and Label				
	MP-0013 5 Needle-Plunger Assembly Procedure									
MP-001			6		M-Close Upper					
MP-001			8		M-Close					
MP-001			2		M-Close 60 Unit S					
MP-001			2	TS	S-0006 DYMAX UV		t-up			
MP-002		L	1		Ultrasonio					
MP-002			2		Micro Tubin					
MP-002		-	2		Bond Guid	 				
MP-002			3		Body Uppe					
MP-0028 4 Knob & Arm Assembly										
MP-003			2		Lower Halve					
MP-0032 2				T-Bar B Assembly Guidewire Advancer Assembly						
MP-0033 1 MP-0038 1			1 .							
QP-000			5		Guidewire Cir M-Close Final Insp					
QP-000			1				3			
QP-000			4	Package Peel Test Procedure M-Close Lot Release Test Procedure						
QP-001			1	Visual Inspection – Foreign Matter						
QP-001			1	Visual Inspection - Pouch Heat Seal						
QP-001			1	Needle Plunger Pressure Leak Testing Procedure						
SOP-008			1	Manufacturing Area Practices						
				IN PROCESS OPERA						
ASSEMBL	/ ODED A	FION	1	IN PROCESS OF ER						
	OPERA	ION		1000 to 1000	INSPECTION C	RITERIA	-			
ASSEMBLY OPERATION	PROCED	URE		INSPECTION DESCRIPTION	PROCEDURE TITLE	QUANTITY	FREQUENCY			
Pouch Labeling	MP-000	02	legible	el orientation, location, e, lot# and use by date correct.	Label Printing Procedure	100%	At start of operation until completion			
Unit Box Assembly	MP-001	8	legibl c	el orientation, location, e, lot# and use by date orrect. Pouch, IFU, ccessory enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion			
5-Unit Box Assembly	5-Unit Box MP-0018 legibl			el orientation, location, e, lot# and use by date orrect. 5 unit boxes enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion			



LOT NUMBER: C1521-2

Boxing	MP-0018	60 units/box, labels applied, Gamma dot in outer shipper	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion
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				PRODUCT TR	AVELERS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Work Order # - WO-	Work Order # - WO-	Work Order# - WO-	Work Order# - WO-
DRW-0086	M-Close Pouched Assembly	3	1	21-02-011			
DRW-0052	M-Close Final Assembly	5	1	21-03-006	1		
DRW-0090	M-Close Shipping Assembly	3	1				
DRW-0109	20ga Needle Assembly	1	1	Z1-03-013 AN 1900Z-Z	1 - 1-0.0		
DRW-0113	Micro Tubing Assembly	2	1	2103-010	20-10-018	NWRONG B	0X
DRW-0191	Guidewire Advancer Ass'y	1	1	21-03-010	NOTE: THESE H	TAVE ABS HOUS	n NGS
				ACCESSORY C	ONTENTS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Lot#	Use by Date	Lot#	Use by Date
DRW-0115	Covidien PHMB Telfa Pad	1	1	N/A	N/A		
						¥	

		S	TERILE B	ARRIE	RINSPE	CTION	(add mo	re rows as	needed)	
					NEW W	AVE END	O SEAL			
Date	Time	QTY	Settings (265°F@	(265°F@				surements /in pass)	Comments	Inspector
			2.5 sec.) (Yes / No)	Left	Middle	Right	PASS	FAIL		Initials:
17 MAR	245	1	YES	3.34	3,12	3.18	P			m
					POUCH	VENDO	R SEAL			
Date Tested	Time Tested	QTY	Chevron Left	Chevron Right	Left	Right	PASS	FAIL	Comments	Inspector Initials:
			VISUAL IN	SPECTIO	N FORE	GN MATT	ER PRO	CEDURE: QP-	0009	
Date	Time	QTY	PASS	FAIL			(Comments		Inspector Initials:
Charge	3:00	10								DB



LOT NUMBER: C1521-2

FINA	AL INSPECTI	ON			
DESCRIPTION	PROCEDURE TITLE	SAMPLE SIZE	RES PASS	ULTS FAIL	PERFORMED BY:
Verify that pouch labels are legible and include the following: Correct lot number, correct expiration date, bar code, correct quantity as specified in label. All information should match this DHR.	QP-0008	100%	P		my
Verify pouch contains (1) M-Close Handle Ass'y, 20ga needle, tubing assembly, guidewire advancer assembly with guidewire. Verify that applicable labels are on the unit boxes. Verify that applicable labels are on shipping boxes.	QP-0008	100%	P		ml
Attach form FM-0013, M-Close Lot Release.	QP-0008	-	N	A	*
Attach copy of Irradiation	Report to DHR.				NA
Attach copies of all labels used to pages 5 and 6 (pouch, single unit box, 5-unit box, 60-unit box) and scan the barcode for each label on the corresponding line.	Pouch label: Single unit box lab 5-unit box label: 60-unit box label:	el: 01008500	09417022	172022033	110C1521-2 110C1521-2 110C1521-2
Comments: X UNITS SENT FOR Blog	BURDEN TES	TING.			·

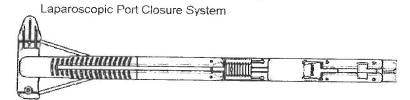
(Add additional pages if inspections exceed the space available above)



M-Close Kit



27-101



Pouch contains: (1) M-Close Kit

(1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle

(1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR BIOBURDEN TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH



ASSEMBLED IN THE USA

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

(Attach pouch label above)

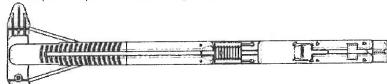
(01)00850009417022(17)2022-03-31(10)C1521-2

M-Close Kit

REF 27-101

Laparoscopic Port Closure System

Not made with natural rubber latex.



(1) M-Close Kit Pouch contains:

(1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle

(1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR BIOBURDEN TESTING INCLUDING MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH



ASSEMBLED IN THE USA

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

Not made with natural rubber latex.

(Attach single unit box label above)

(01)00850009417022(17)2022-03-31(10)C1521-2

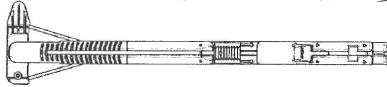
M-Close Kit

Laparoscopic Port Closure System

REF

27-101

5 UN



Pouch contains:

- (1) M-Close Kit
- (1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle
- (1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR BIOBURDEN TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

2022 -03 -31 LOT C1521-2R Only

Not made with natural rubber latex.

ASSEMBLED IN THE USA

15 Y

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

(Attach 5-unit box label above)

NIA



LOT NUMBER: C1521-3

PRODUCT DESCRIPTION: M-Close Kit		
CATALOG/ ITEM NUMBER: 27-101		
START DATE: (DDMTHYYYY) 15 MAR 2021		QUANTITY
COMPLETION DATE: (DDMTHYYYY) 16 MAR 201	ORDERED:	10
EXPIRATION DATE: (DDMTHYYYY) 3/MAR 2022	COMPLETED:	10
(Lot expires 12 months from assembly completion)	Oute	r (60 Units) Boxes
	FULL	PARTIAL
Sterilization: Gamma	N/A	N/A

(Indicate partial qty, ex 1/6, 5/6, 7/12 etc.)

		RELATED DOCUMENTS
DOCUMENT	REV	TITLE
MP-0002	1	Label Printing Procedure
MP-0012	6	M-Close Pouch and Label
MP-0013	5	Needle-Plunger Assembly Procedure
MP-0015	6	M-Close Upper Body Assembly
MP-0017	8	M-Close Assembly
MP-0018	2	M-Close 60 Unit Shipping Assembly
MP-0019	2	TS-0006 DYMAX UV Light Source Set-up
MP-0020	1	Ultrasonic Cleaning
MP-0023	2	Micro Tubing Assembly
MP-0026	2	Bond Guidewire Loop
MP-0027	3	Body Upper Pre-work
MP-0028	4	Knob & Arm Assembly
MP-0030	2	Lower Halves Pre-work
MP-0032	2	T-Bar B Assembly
MP-0033	1	Guidewire Advancer Assembly
MP-0038	1	Guidewire Cinch Assembly
QP-0001	5	M-Close Final Inspection Procedure
QP-0004	1	Package Peel Test Procedure
QP-0008	4	M-Close Lot Release Test Procedure
QP-0010	1	Visual Inspection – Foreign Matter
QP-0011	1	Visual Inspection - Pouch Heat Seal
QP-0012	1	Needle Plunger Pressure Leak Testing Procedure
SOP-0054	1	Manufacturing Area Practices
MP-0002	1	Label Printing Procedure

	IN PROCESS OPERATIONS SEQUENCE								
ASSEMBL'	Y OPERATION		INSPECTION CRITERIA						
ASSEMBLY OPERATION	PROCEDURE	ROCEDURE INSPECTION PROCEDURE QUAN		QUANTITY	FREQUENCY				
Pouch Labeling	MP-0002	Label orientation, location, legible, lot# and use by date correct.	Label Printing Procedure	100%	At start of operation until completion				
Unit Box Assembly	M P-0018	Label orientation, location, legible, lot# and use by date correct. Pouch, IFU, Accessory enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion				
5-Unit Box Assembly	M P-0018	Label orientation, location, legible, lot# and use by date correct. 5 unit boxes enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion				



LOT NUMBER: C1521-3

Boxing	MP-0018	60 units/box, labels applied, Gamma dot in outer shipper	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion
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				PRODUCT TR	RAVELERS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Work Order # - WO-	Work Order # - WO-	Work Order# - WO-	Work Order# - WO-
DRW-0086	M-Close Pouched Assembly	3	1	21-03-012			
DRW-0052	M-Close Final Assembly	5	1	21-03-012			
DRW-0090	M-Close Shipping Assembly	3	1	21-03-013			
DRW-0109	20ga Needle Assembly	1	1				
DRW-0113	Micro Tubing Assembly	2	1	20-10-018			
DRW-0191	Guidewire Advancer Ass'y	1	1	21-03-010	NOTE: THESE	UNITS HAVE	PC HOUSINGS
				ACCESSORY C	CONTENTS and	ta GW ynch"	tail" attached
PART#	DESCRIPTION	REV	QTY/ UNIT	Lot #	Use by Date	e GW loop.	Use by Date
DRW-0115	Covidien PHMB Telfa Pad	1	1	N/A	N/A		

		S	TERILE E	BARRIEF	RINSPE	CTION	(add mo	re rows	as needed)	
					NEW W	AVE END	O SEAL			
Date	Time	QTY	Settings (265°F@ 2.5 sec.)		Lbs./Inch			urements /in pass)	Comments	Inspector Initials:
			(Yes / No)	Left	Middle	Right	PASS	FAIL		initials.
17 MAR	5:05	1	YES	3.12	2.98	3,10	P			Int.
`										
										· · · · · · · · · · · · · · · · · · ·
				·	POUCH	VENDO	R SEAL		-	
Date Tested	Time Tested	QTY	Chevron Left	Chevron Right	Left	Right	PASS	FAIL	Comments	Inspector Initials:
			VISHALII	NSPECTIO	N FOREI	GN MAT	ER PRO	CEDURE:	OP-0009	
Date	Time	QTY	PASS	FAIL	ATT OILL	CIVIII		Comments	-	Inspector Initials:
Jacvene	10:20	13-10	/		only	(10	mond	Hhis	lote # C1521-3	DB
		AA-17-	1ARCh 2	021						

CONFIDENTIAL



LOT NUMBER: C1521-3

AL INSPECTI	ON			
PROCEDURE TITLE	SAMPLE SIZE	RES PASS		PERFORMED BY:
QP-0008	100%	P		
QP-0008	100%	P		
QP-0008	NA	NA	NA	m d
n Report to DHR.				NIA
Pouch label: Single unit box lab 5-unit box label: 60-unit box label:	el: 010085000	094170221	1720220331	110C1521-3
for bloba	rden te	sting		
	PROCEDURE TITLE QP-0008 QP-0008 QP-0008 On Report to DHR. Pouch label: Single unit box labsition of the control of the co	TITLE SIZE QP-0008 100% QP-0008 100% QP-0008 100% Report to DHR. Pouch label: 010085000 5-unit box label: 010085000 5-unit box label: 010085000 60-unit box label: N/A	PROCEDURE SAMPLE RES TITLE SIZE PASS QP-0008 100% QP-0008 100% QP-0008 100% Report to DHR. Pouch label: 010085000941702215-unit box label: 010085000941702215-unit box label: N/A	PROCEDURE SAMPLE RESULTS PASS FAIL QP-0008 100% P QP-0008 100% P On Report to DHR. Pouch label: 010085000941702217202203315-unit box label: 010085000941702217202203335-unit box label: 010085000941702217202203335-unit box label: 010085000941702217202203335-unit box label: 010085000941702217202203335-unit box label: 01008500094170221720220333

(Add additional pages if inspections exceed the space available above)



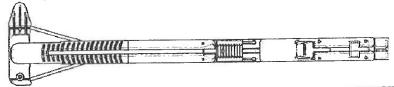
LOT NUMBER: C1521-3



M-Close Kit

REF 27-101

Laparoscopic Port Closure System



Pouch contains: (1) M-Close Kit

- (1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle
- (1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR BIOBURDEN TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

2022 -03 -31 LOT C1521-3R Only

Not made with natural rubber latex.

ASSEMBLED IN THE USA

New Wave Endo 6661 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

(Attach pouch label above)

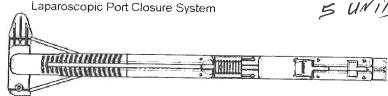
Same as above and

(Attach single unit box label above)





REF 27-10



Pouch contains:

- (1) M-Close Kit
- (1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle
- (1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR BIOBURDEN TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

2022 -03 -31 LOT C1521-3R Only

Not made with natural rubber latex.

ASSEMBLED IN THE USA

BY

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

(Attach 5-unit box label above)

NA



LOT NUMBER: C1521-4

PRODUCT DESCRIPTION:	M-Close Kit			
CATALOG/ ITEM NUMBER:	27-101			
START DATE: (DDMTHYYYY)	a time At a lost more and a lost of		QUANTITY	
COMPLETION DATE: (DDMTHYYYY)	15 000 1	ORDERED:	3	
EXPIRATION DATE: (DDMTHYYYY)		COMPLETED:	3	
(Lot expires 12 mont)	hs from assembly completion)	Outer (60 Units) Boxes		
		FULL	PARTIAL	
Stei	rilization: Gamma	N/A	N/A	

(Indicate partial qty, ex 1/6, 5/6, 7/12 etc.)

RELATED DOCUMENTS						
DOCUMENT	REV	TITLE				
MP-0002	1	Label Printing Procedure				
MP-0012	6	M-Close Pouch and Label				
MP-0013	5	Needle-Plunger Assembly Procedure				
MP-0015	6	M-Close Upper Body Assembly				
MP-0017	8	M-Close Assembly				
MP-0018	2	M-Close 60 Unit Shipping Assembly				
MP-0019	2	TS-0006 DYMAX UV Light Source Set-up				
MP-0020	1	Ultrasonic Cleaning				
MP-0023	2	Micro Tubing Assembly				
MP-0026	2	Bond Guidewire Loop				
MP-0027	3	Body Upper Pre-work				
MP-0028	4	Knob & Arm Assembly				
MP-0030	2	Lower Halves Pre-work				
MP-0032	2	T-Bar B Assembly				
MP-0033	1	Guidewire Advancer Assembly				
MP-0038	1	Guidewire Cinch Assembly				
QP-0001	5	M-Close Final Inspection Procedure				
QP-0004	1	Package Peel Test Procedure				
QP-0008	4	M-Close Lot Release Test Procedure				
QP-0010	1	Visual Inspection – Foreign Matter				
QP-0011	1	Visual Inspection - Pouch Heat Seal				
QP-0012	1	Needle Plunger Pressure Leak Testing Procedure				
SOP-0054	1	Manufacturing Area Practices				
MP-0002	1	Label Printing Procedure				

	IN PROCESS OPERATIONS SEQUENCE								
ASSEMBL'	Y OPERATION		INSPECTION CRITERIA						
ASSEMBLY OPERATION	PROCEDURE	INSPECTION DESCRIPTION	PROCEDURE TITLE	QUANTITY	FREQUENCY				
Pouch Labeling	MP-0002	Label orientation, location, legible, lot# and use by date correct.	Label Printing Procedure	100%	At start of operation until completion				
Unit Box Assembly	M P-0018	Label orientation, location, legible, lot# and use by date correct. Pouch, IFU, Accessory enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion				
5-Unit Box Assembly	MP-0018	Label orientation, location, legible, lot# and use by date correct. 5 unit boxes enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion				



LOT NUMBER: C1521-4

Boxing	MP-0018	60 units/box, labels applied, Gamma dot in outer shipper	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion
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				PRODUCT TR	AVELERS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Work Order # - WO-	Work Order # - WO-	Work Order# - WO-	Work Order# - WO-
DRW-0086	M-Close Pouched Assembly	3	1	21-03-014			
DRW-0052	M-Close Final Assembly	5	1	21-03-006			
DRW-0090	M-Close Shipping Assembly	3	1	SHIPPED TO ST	ERIS FOR 8 010 D TO LGGS FOR	my with LOT#	C2321
DRW-0109	20ga Needle Assembly	1	1	AN19002-2	0 10 0003 701	Jenices Ale	
DRW-0113	Micro Tubing Assembly	2	1	220-10-01	8 My. 17 MA. MISPRIA	R 2021 EED	
DRW-0191	Guidewire Advancer Ass'y	1	1	21-03-010	- ABS materia	.1	
				ACCESSORY C	ONTENTS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Lot#	Use by Date	Lot#	Use by Date
DRW-0115	Covidien PHMB Telfa Pad	1	1	N/A	N/A		

		S	TERILE B	ARRIEF	RINSPE	CTION	(add mo	re rows	as needed)	
					NEW W	AVE END	O SEAL			
Date	Time	QTY	Settings (265°F@				(All Measurements ≥ .75 lb./in pass)		Comments	Inspector
			2.5 sec.) (Yes / No)	Left	Middle	Right	PASS	FAIL		muais.
NIA	NIA	NIA	NIA						Not TESTED	And
·									- NOT TESTED - ONLY & UNITS COINCTOINSTATE	WX
									COINCTOINSTATE	
									TEST LAB	····
					POUCH	VENDO	R SEAL			
Date Tested	Time Tested	QTY	Chevron Left	Chevron Right	Left	Right	PASS	FAIL	Comments	Inspector Initials:
									-N/A see	
									above	
			VISUAL IN	ISPECTIO	N FORE	IGN MAT	TER PRO	CEDURE:	QP-0009	
Date	Time	QTY	PASS	FAIL	NIL Comments				s	Inspector Initials:
7 MCY 200	1 10:30	3	/							DB
		-				· · · · · · · · · · · · · · · · · · ·				



LOT NUMBER: C1521-4

FINA	AL INSPECTI	ON			
DESCRIPTION	PROCEDURE TITLE	SAMPLE SIZE	RES PASS	ULTS FAIL	PERFORMED BY:
Verify that pouch labels are legible and include the following: Correct lot number, correct expiration date, bar code, correct quantity as specified in label. All information should match this DHR.	QP-0008	100%	P	1742	
Ensure that current IFU is used. Verify pouch contains (1) M-Close Handle Ass'y, 20ga needle, tubing assembly, guidewire advancer assembly with guidewire. Verify that applicable labels are on the unit boxes. Verify that applicable labels are on the 5-unit boxes. Verify that applicable labels are on shipping boxes.	QP-0008	100%	NIA	NIF	Mr. J.
Attach form FM-0013, M-Close Lot Release.	QP-0008	NIA		NIA	NA
Attach copy of Irradiation	Report to DHR.				50e Lot C2321
Attach copies of all labels used to pages 5 and 6 (pouch, single unit box, 5-unit box, 60-unit box) and scan the barcode for each label on the corresponding line.	Pouch label: Single unit box lab 5-unit box label: 60-unit box label:				10C1521-4
Comments:					

(Add additional pages if inspections exceed the space available above)



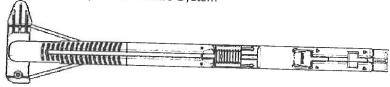
LOT NUMBER: C1521-4



M-Close Kit

REF 27-101

Laparoscopic Port Closure System



Pouch contains: (1) M-Close Kit

(1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle

(1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR B/F TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

2022 -03 -31 LOT C1521-4R Only

ASSEMBLED IN THE USA **New Wave Endo**

STERILE R

6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

(Attach pouch label above)

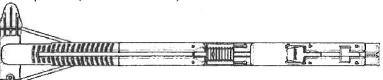


M-Close Kit

Not made with natural rubber latex

27-101

Laparoscopic Port Closure System



Pouch contains: (1) M-Close Kit

- (1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle
- (1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR B/F TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

2022 -03 -31 LOT C1521-4R Only STERILE R

ASSEMBLED IN THE USA

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

Not made with natural rubber latex.

(Attach single unit box label above)



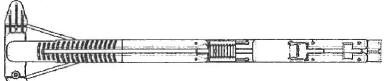
LOT NUMBER: C1521-4



M-Close Kit

REF 27-101

Laparoscopic Port Closure System



Pouch contains:

- (1) M-Close Kit
- (1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle
- (1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR B/F TESTING INCLUDING

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

2022 -03 -31 LOT C1521-4R Only

STERILE R

ASSEMBLED IN THE USA BY

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

Not made with natural rubber latex.

(Attach 5-unit box label above)

(Attach 60-unit box label above)



LOT NUMBER: D0521

PRODUCT DESCRIPTION:	M-Close Kit		
CATALOG/ ITEM NUMBER:	27-101		
START DATE: (DDMTHYYYY)		QI	UANTITY
COMPLETION DATE:	1 US APR 7071	ORDERED:	15
EXPIRATION DATE: (DDMTHYYYY)		COMPLETED:	15
(Lot expires 12 mont	hs from assembly completion)	Outer (6	0 Units) Boxes
		FULL	PARTIAL
Ste	rilization: Gamma	15 in 13"X13"X13" ship	per 0

(Indicate partial qty, ex 1/6, 5/6, 7/12 etc.)

		RELATED DOCUMENTS
DOCUMENT	REV	TITLE THE PROPERTY OF THE PROP
MP-0002	. 1	Label Printing Procedure
MP-0012	6	M-Close Pouch and Label
MP-0013	5	Needle-Plunger Assembly Procedure
MP-0015	6	M-Close Upper Body Assembly
MP-0017	8	M-Close Assembly
MP-0018	2	M-Close 60 Unit Shipping Assembly
MP-0019	2	TS-0006 DYMAX UV Light Source Set-up
MP-0020	1	Ultrasonic Cleaning
MP-0023	2	Micro Tubing Assembly
MP-0026	2	Bond Guidewire Loop
MP-0027	3	Body Upper Pre-work
MP-0028	4	Knob & Arm Assembly
MP-0030	2	Lower Halves Pre-work
MP-0032	2	T-Bar B Assembly
MP-0033	1	Guidewire Advancer Assembly
MP-0038	1	Guidewire Cinch Assembly
QP-0001	5	M-Close Final Inspection Procedure
QP-0004	1	Package Peel Test Procedure
QP-0008	4	M-Close Lot Release Test Procedure
QP-0010	1	Visual Inspection – Foreign Matter
QP-0011	1	Visual Inspection - Pouch Heat Seal
QP-0012	1	Needle Plunger Pressure Leak Testing Procedure
SOP-0054	1	Manufacturing Area Practices
MP-0002	1	Label Printing Procedure

		IN PROCESS OPERA	ATIONS SEQUEN	ICE					
ASSEMBL	Y OPERATION		INSPECTION CRITERIA						
ASSEMBLY OPERATION	PROCEDURE	INSPECTION DESCRIPTION	PROCEDURE TITLE	QUANTITY	FREQUENCY				
Pouch Labeling	MP-0002	Label orientation, location, legible, lot# and use by date correct.	Label Printing Procedure	100%	At start of operation until completion				
Unit Box Assembly	MP-0018	Label orientation, location, legible, lot# and use by date correct. Pouch, IFU, Accessory enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion				
5-Unit Box Assembly	MP-0018	Label orientation, location, legible, lot# and use by date correct. 5 unit boxes enclosed.	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion				



LOT NUMBER: D0521

Boxing	MP-0018	60 units/box, labels applied, Gamma dot in outer shipper	M-Close 60 Unit Shipping Assembly	100%	At start of operation until completion
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			,	PRODUCT TR	AVELERS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Work Order # - WO-	Work Order # - WO-	Work Order# - WO-	Work Order# - WO-
DRW-0086	M-Close Pouched Assembly	3	1	21-04-017			
DRW-0052	M-Close Final Assembly	5	1	21-03-021			
DRW-0090	M-Close Shipping Assembly	3	, 1	NA - See ins	tructions in su	nomittal to 57	eris AST for
DRW-0096	Guidewire Feeder Assembly	2	1	NA - See ins 24-04 805	ů	description of	shipping Assi
DRW-0109	20ga Needle Assembly	1	1	AN19002-2	Zf-wo]	MCLOSE FINA	INSPECTION
DRW-0113	Micro Tubing Assembly	2	1	21-02-020		21-04-002	/
				ACCESSORY C	ONTENTS		
PART#	DESCRIPTION	REV	QTY/ UNIT	Lot#	Use by Date	Lot#	Use by Date
DRW-0115	Covidien PHMB Telfa Pad	1	1	N/A	N/A		
	Tella Fau						

		S	TERILE B	BARRIEF	RINSPE	CTION	(add mo	re rows a	as needed)	
					NEW W	AVE END	O SEAL			
Date	Time	QTÝ	Settings (265°F@		Lbs./Inch (All Measurements ≥ .75 lb./in pass)		Comments	Inspector Initials:		
			2.5 sec.) (Yes / No)	Left	Middle	Right	PASS	FAIL		inidals.
2021	150	1	YES	2,90	316	260	1			ml.
12 //	2:04	1	YES	3:16	2,54	252	P			m
					POUCH	VENDO	R SEAL			
Date Tested	Time Tested	QTY	Chevron Left	Chevron Right	Left	Right	PASS	FAIL	Comments	Inspector Initials:
2021	2:01	7	1.64	1.98	3.12	274	P			ml
			VISUAL II	NSPECTIO	ON FORE	GN MATT	ER PRO	CEDURE: (QP-0009	
Date	Time	QTY	PASS	FAIL	NIL. Comments					Inspector Initials:
202)	2:30	15								my



LOT NUMBER: D0521

AL INSPECTI	ON			
PROCEDURE	SAMPLE	RESULTS		
TITLE	SIZE	PASS FAIL		PERFORMED BY:
QP-0008	100%			
QP-0008	100%			
QP-0008		N	19	med.
n Report to DHR.				
5-unit box label:	oel: 010085000 010085000	941702217	720220430	010D0521
	PROCEDURE TITLE QP-0008 QP-0008 QP-0008 Report to DHR. Pouch label: Single unit box label: 5-unit box label:	PROCEDURE SAMPLE SIZE	PROCEDURE SIZE RESURTITLE SIZE PASS QP-0008 100% QP-0008 100% QP-0008 100% Report to DHR. Pouch label: 0100850009417022175-unit box l	PROCEDURE SAMPLE SIZE PASS FAIL QP-0008 100% 100%

Comments:

These units are intended for sterilization validation on M-Close Kit, REF 27-101, which includes T-Bar-B, guidewire with cinch (DRW-0189) and suture pull added to loop, and guidewire advancer mechanism (DRW-0191) replacing the previous guidewire feeder. They are being sent to Steris AST Radiation Technology Center, 2500 Commerce Drive, Libertyville, IL 60048 for the verification dose under RRF submittal #10338z.

Post irradiation the units are being forwarded to LGGS Florida for sterility testing on 10 units. The extra 5 units are provided as insurance against a lab error during sterility testing.

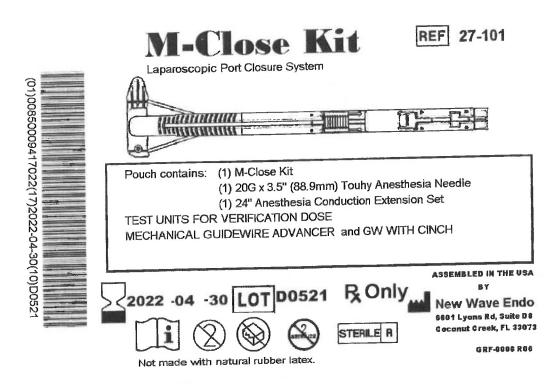
(Add additional pages if inspections exceed the space available above)



LOT NUMBER: D0521



(ILLUVII POUDII IONOTIMOTIO)



(Attach single unit box label above)



Laparoscopic Port Closure System

LOT NUMBER: D0521



REF 27-101

Contains five (5) units



Pouch contains:

(1) M-Close Kit

(1) 20G x 3.5" (88.9mm) Touhy Anesthesia Needle

(1) 24" Anesthesia Conduction Extension Set

TEST UNITS FOR VERIFICATION DOSE

MECHANICAL GUIDEWIRE ADVANCER and GW WITH CINCH

ASSEMBLED IN THE USA

New Wave Endo 6601 Lyons Rd, Suite D8 Coconut Creek, FL 33073

GRF-0006 R06

2022 -04 -30 LOT D0521







Not made with natural rubber latex.

(Attach 5-unit box label above)

(Attach 60-unit box label above)

NEW	WAV	EE	ND	0

M-Close Final Inspection Record

Work Order # 21-04 002

Doc #: QP-0001

QTY Starts: _/5

MP#	Procedural Description	Work Step	Part# (BOM Qty)	Lot #	Qty. Rejected	Qty. Accepted	Initials (Each Operator)
	Manufacturing Line Clearance	4.1	IPA 70%				MA
	T-Bar Rotation	5.1.2			0	15	414
	Plunger 1st stop retention	5.1.4		Dara	0	15	MA
	Plunger 1st stop weight suspension	5.1.6		D0521	0	15	NA
QP-0001	Dual Lumen Inspection	5.1.9	M-Close Handle Assembly		0	15	MA
Rev: 🛚 🖸	Plunger 2 nd stop retention	5.1.12	DRW-0052 (1)		()	15	MA
	Plunger 2 nd stop weight suspension	5.1.14			0	15	AH
	Plunger 2 nd stop drop	5.1.16			0	15	Ad
	Plunger head offset weight lift	5.1.18			0	15	Alt

FM-0086 R03

CRCO-201025-1

Eff Date: 300CT2020

	\	-
NEW	WAVE	ENDO

M-Close Final Inspection Record

Work Order # 21-04-002

Doc #: QP-0001

QTY Starts: __15___

MP#	Procedural Description	Work Step	Part # (BOM Qty)	MA: 05 APR 2021	Qty. Rejected	Qty. Accepted	Initials (Each Operator)
	Advance Guidewire & Suture	5.1.20	Guidewire Feeder Ass'y DRW-0136 (1)	ola 1	0	D	EV
	Verify needles are completely below surface after Plunger retraction	5.1.23			0	15	ev
	Remove Suture	5.1.25			1)	15	62
	Repeat step 5.1,19 - 5.1.25 on opposite port	5.1.26	M-Close Handle Assembly DRW-0052		0	15	éV
	Trocar test	5.1.28	(1)		0	12	EV
	Flip the Limit Lever up	5.1.29			0	12	er

Work step tables shall be completed and initialed by operator performing procedure.

TOTAL Work Order	Total Qty. Released	Date	Initial	
(filled by production personnel)	12	02 MPE2041	ИA	

Production Traveler Review	Initials	0	Date
Production Supervisor (or Designee)	. Al	07	05 apr / 2021
Quality Supervisor (or Designee)	mille	7	05 APR 2021

Page 2 of 2

FM-0086 R03

CRCO-201025-1

Confidential: Do Not Copy Without Permission of New Wave Endo.

Eff Date: 300CT2020

Certificate of Processing

Prepared for NEW WAVE ENDO

Radiation Request ID: 45389

P.O. # 20511



Helt ID	Item Information			Dose in Kilogray (in kGy)				
Unit ID		Quantity	UOM	Specific Min.	ed Dose Max.	Delivere Min,	ed Dose Max.	Exposure Time In Minutes
001	Product Code: See Customer Item ID Cust Item ID: 27-101 Lot Number: D0521 Description: M-Close Kit Comments: Product Meets Customer specifications; zero nonconformities occurred during this irradiated run	1	CS	10.20	12.40	10.29	10.65	73

Signature Manifest

Reviewed and E-Signed By

Herolt, Daniel (QS & RC Technician I)

Document Content Revision: 1

Signed On 4/16/2021 at 8:28 AM UTC / GMT Offset (hh:mm): -5:00

Processing Location:

STERIS Radiation Technology Center 2500 Commerce Drive Libertyville, IL 60048

Phone: 847-247-4782

Operating facilities are in compliance with applicable state and federal regulations (FDA, NRC, EPA, and OSHA) and provide services under a quality system which meets the requirements of FDA QSR, EN/ISO 13485, and in alignment with EN ANSI/AAMI/ISO 11137. STERIS certifies that these processed items received the indicated doses within the precision and accuracy of the dosimetry system used.



STERIS Dosimetry Record

Prepared for NEW WAVE ENDO Radiation Request ID 45389

Date Prepared: 4/16/2021 8:26:45AM

Processing Location:

Radiation Technology Center

Irradiator:

234, Nordion Cobalt-60 Irradiator #234

Unit ID: 001

								Final
Coordinate	Barcode ID	Read By	Read Date		Insert	Instrument	Dose (kGy)	Dose (kGy)
TC	0BX592073974	wwitcraf	04/15/2021	19:37:15	TH0075	0152	10.65	10.65
RBL	0BX592073980	wwitcraf	04/15/2021	19:34:40	TH0075	0152	10.33	10.33
EC	0BX592073985	wwitcraf	04/15/2021	19:38:38	TH0075	0152	10.29	10.29
FBR	0BX592001356	wwitcraf	04/15/2021	19:39:12	TH0075	0152	10.31	10.31
FTL	0BX592073975	wwitcraf	04/15/2021	19:37:53	TH0075	0152	10.55	10.55

Minimum Dose for Unit (kGy):

10.29

Maximum Dose for Unit (kGy):

10.65

Signature Manifest



Prepared By:

Walter Witcraft (Radiation Technician II)

Approved By:



Herolt, Daniel (QS & RC Technician I)

Document Content Revision: 1

Signed On 4/15/2021 at 2:39 PM UTC / GMT Offset (hh:mm): -5:00

Signed On 4/16/2021 at 8:26 AM UTC / GMT Offset (hh:mm): -5:00



05/04/2021 Document ID: 10338z

STERIS AST Radiation Technology Center Phone: (847) 247-4782 Email: RadiationTechTeam@steris.com

RADIATION REQUEST FORM

Radiation Center					
Gamma - Americas	(Libertyville,	Illinois	Radiation	Technology	(Center)

STEP 1: Contact Details

PO#

20511

Email

martin.singer@newwaveendo.com

Additional Emails

martin.singer@newwaveendo.com

Product Received From (Originator):

Originator Company Name

New Wave Endo

Originator Address

6601 Lyons Road Unit D8 Coconut Creek, Florida 33073 United States

Originator Contact Name

Martin Singer

Originator Email

martin.singer@newwaveendo.com



05/04/2021 Document ID: 10338z

STERIS AST Radiation Technology Center Phone: (847) 247-4782 Email: RadiationTechTeam@steris.com

Originator Phone

9548060032

Product Belongs to (Customer):

Customer Contact Details

Same as Originator

Send Invoice to (Party to be billed):

Invoice Contact Details

Same as Originator

Ship Irradiated Product to:

Ship Irradiated Product to

None of the Above

Ship to Company Name

LGGS Florida

Shipping Address and Company Name

15370 CR 565A

Suite A

Groveland, FL 34736

United States

Shipping Contact Name

Ann Quiroz

Shipping Email

lggsflorida@yahoo.com



05/04/2021 Document ID: 10338z

STERIS AST Radiation Technology Center Phone: (847) 247-4782
Email: RadiationTechTeam@steris.com

Shipping Phone 3522420057

STEP 2: Recipient of Transmittal Information

Original Certificate of ProcessingOriginator

Copy of Certificate of ProcessingOriginator

Dosimetry Record? Yes

Radiation Request Form returned toOriginator

STEP 3: Shipping Information

Ship Via
Customer arranged courier

Select courier
UPS

UPS Shipping 2 Day Air

UPS Account # 59087E



05/04/2021 Document ID: 10338z

STERIS AST Radiation Technology Center Phone: (847) 247-4782 Email: RadiationTechTeam@steris.com

STEP 4: Test Details

Type of Testing

Dose Verification (Dose Audit/Dose Establishment)

Protocol

No

Product Classification

Medical Device

Certification/License Requirements

ISO11137

Hazardous Material?

No

STEP 5: Product Information

Internal Dosimeter

Some package configurations may require the placement of an internal dosimeter to monitor the minimum dose location. I hereby give approval to place internal dosimeters as needed. If product is packaged in a manner that will not allow the placement and retrieval (post-irradiation) of an internal dosimeter, I give approval to repackage the contents or open any secondary packaging to accommodate this placement as needed.

Product	Information						
# of Carto ns	Dimension s (L x W x H)	Weig ht	Dose Range Min (kGy)	Dose Range Max (kGy)	Lot Numbe r	Produc t Code	Descript ion



05/04/2021 Document ID: 10338z

STERIS AST Radiation Technology Center Phone: (847) 247-4782 Email: RadiationTechTeam@steris.com

1	13 X 13 X 13	7	10.2	12.4	D0521	27-101	M-Close Kit
---	--------------	---	------	------	-------	--------	----------------

Special Instructions

Open shipper box and remove three 5-unit boxes for irradiation dosing. Following irradiation, replace back into shipper box and forward to LGGS Florida for sterility test.

Processing Information

Routine Processing (4-7 business days) \$1610.00

STERIS AST Quote Provided By:	Josh Zerr
Date: 4/5/21	
(Provided quote good for 30 days)	
Customer Approval Signature:_	Martin Singer, Director of Quality M Anger
Date: 05 APR 2021	
(Product cannot be processed with	hout a signature)

Please sign AFTER STERIS AST has completed pricing information & has faxed to you for your approval... THANKS, STERIS AST liability under RRF limited to \$500 unless otherwise specified in processing agreement. In no event shall STERIS AST be liable for any special, consequential, or exemplary damages.

STERIS AST Quality Assurance Reviewed By:

Net Terms 30 days, unless otherwise contracted

Date:

NEW WAVE ENDO						
TITLE Gamma Sterilization Report	Page 10 of 15					
DOCUMENT NO: RPT-0025A	REVISION: 01	CRCO: 210510-1	EFF DATE: 20 MAY 2021			

ATTACHMENT C

Bioburden Report

(4 pages)





SPONSOR:		Wave Endo		_ab No.: <u>F21-0580-00</u>
		Lyons Road, Unit D8		P.O. No.: 20504
		nut Creek, FL 33073		Lot No.: C1521-1
	Attn:	Martin Singer	Date Re	eceived: 03-24-21
Test Article:	M-C	lose Kit, REF 27-101		
Condition of	Test Ar	ticle at Receipt: Go	od	
oonanon or				
Procedure: F	or com	plete details, see Biob	ourden Test Specification No.	B-NWE-001-00
		,	,	
			Total Recoverable	Total Recoverable
			Aerobic Bioburden as	Fungi Bioburden as
Resu	ılte	Sample Number	CFU's per sample	CFU's per sample
1,650	JII.S.	Sample Number	Of O's per sample	Of O's per sample
		1	26	16
		2	22	12
		3	30	12
		4	32	6
		5	18	26
		6	40	14
		7	54	16
		8	90	10
		9	22	12
		10	32	8
		10	52	0
Numb	oer of F	Products Tested:	10	10
		Forming Units:	47.6	17.2
		eviation:	21.4	5.5
		ve Control:	Negative	Negative
	710900			
Comments:	A rec	overy factor of 1.3 wa	s applied to the overall average	ies
Oommonto.	71100	overy lactor of 1.0 wa	o applied to the overall average	,500.
D : "	N1			
Deviations:	None	}		
			A C) .
Completed:	03-31	I-21 Tech: DJ/VS	Approved by:	Buron
•			Te	chinical Manager or Deputy





SPONSOR:		Wave Endo		Lab No.: F21-0581-00
		Lyons Road, Unit D8		P.O. No.: 20504
		onut Creek, FL 33073		Lot No.: C1521-2
	Attn:	Martin Singer	Date	Received: 03-24-21
		101 DEE 07 404		
Test Article:	M-C	lose Kit, REF 27-101		
Condition of	Test Aı	rticle at Receipt: <u>Go</u>	od	
Procedure: F	or com	plete details, see Biob	ourden Test Specification No	o. B-NWE-001-00
			Total Recoverable	Total Recoverable
			Aerobic Bioburden as	Fungi Bioburden as
Resu	ults:	Sample Number	CFU's per sample	CFU's per sample
		1	60	6
		2	28	12
		3	14	6
		4	26	14
		5	38	12
		6	32	22
		7	22	18
		8	46	24
		9	26	24
		10	32	4
Missionale	f F	Des divists Talets di	40	40
		Products Tested:	10 42.1	10 18.5
		Forming Units:	13.0	7.6
		ve Control:	Negative	Negative
PDVV	Negau	ve Control.	ivegative	Negative
Comments:	Δ rec	overy factor of 1.3 wa	s applied to the overall aver	ranes
Comments.		overy lactor of 1.0 wa	s applied to the overall aver	ages.
D ! !!	Mana			
Deviations:	INOUE	,		
				\bigcirc
Completed:	03-3	1-21 Tech: <u>DJ/VS</u>	Approved by:	MOURES
			7	Technical Manager or Deputy





	6601 Lyons Road, Unit D8 Coconut Creek, FL 33073 Attn: Martin Singer M-Close Kit, REF 27-101 est Article at Receipt: Go	ood	P.O. No.: 20504 Lot No.: C1521-3 Received: 03-24-21
Condition of Te	Attn: Martin Singer M-Close Kit, REF 27-101 est Article at Receipt: Go	ood	
Condition of Te	M-Close Kit, REF 27-101 est Article at Receipt: Go	ood	Received: 03-24-21
Condition of Te	est Article at Receipt: Go		
Condition of Te	est Article at Receipt: Go		
Condition of Te	est Article at Receipt: Go		
Procedure: For	complete details, see Bio	hurden Test Specification No	
		ourden rest Specification No	o. B-NWE-001-00
		Total Recoverable	Total Recoverable
		Aerobic Bioburden as	Fungi Bioburden as
Result	s: Sample Number	CFU's per sample	CFU's per sample
1 (5501)	- Janipio Hallinoi		
	1	30	68
	2	34	16
	3	278	84
	4	302	44
	5	28	24
	6	180	30
	7	56	44
	8	34	40
	9	36	20
	10	54	24
Numbe	r of Products Tested:	10	10
	olony Forming Units:	134.2	51.2
	rd Deviation:	108.4	22.0
	egative Control:	Negative	Negative
FDVVIV	egative Control.	Negative	ivegative
Comments: _	A recovery factor of 1.3 wa	as applied to the overall aver	ages.
D 1 ()	M		
Deviations:	None		
Completed:	03-31-21 Tech: DJ/VS	Approved by:	l devices
Completed	03-31-21 Tech. D3/V3		Technical Manager or Deputy

TEST REQUEST FORM



140
Anaheim, CA 92806
Phone: (714) 223-0800
Fax: (714) 223-0801
Email: cs@lggsinc.com

√ 15370 CR 565A Suite A Groveland, FL 34736 Phone: (352) 242-0057 Fax: (352) 242-4741 Email: lggsflorida@gmail.com



PLEASE FILL IN PERTINENT INFORMATION LEGIBLY. SUBMIT ONE COMPLETED FORM WITH EACH SAMPLE TO BE TESTED. PURCHASE ORDER NO. AND SIGNED TEST REQUEST FORM ARE BOTH REQUIRED FOR TESTS TO BE SCHEDULED. SEND SAMPLES AND COMPLETED FORM TO PROPER ADDRESS FOR TESTING (LISTED ABOVE).

(Lab Use Only)	Lab Numb	per:			
Date:			ed in Good Condition	☐ YES	□NO
Logged in by:		Number of	of samples received:		
Notes:					
CUSTOMER CONTAC	CT INFORMATION		Purchase Order		
OOOTOMEN CONTAC		-	Fulchase Older	Mantin Ci	
Company Name	New Wave Endo	Unit DO	_ Contact Person	Martin Sir	_
Street Address	6601 Lyons Road,		_ Phone/Ext	954 806 0	
City, State, Zip code	Coconut Creek, FL	33073	Email		veendo.com
CUSTOMER BILLING	INFORMATION	same as customer con	tact information		
Company Name			Contact Person		
Street Address			— Phone/Ext		
City, State, Zip code			— Email		
r 					
TEST ARTICLE DESC		CT wording desired on Te		<u> </u>	
M-Close Kit, RE	EF 27-101		correct	ed typo	
			m.J. 0	PAPRZOZI	
Sample ID/Batch/Lot	number: C1521-1, C	1521-2, C15221	1-3 C1521-	3 _ N/A	
✓ New product test	submission	Sample Storage Cor	ndition Sample	Disposition (defa	ault is discard)
New product to e	existing, reference	✓ Room Tempera		iscard Samples	
specification:		Refrigerated	□ Re	eturn Samples	
Existing product,	reference	Freezer	│	eturn Shipping Co	ontainer
specification:		Other	Pi	ck up	
Tests Requested:					
MP 0	05	Total Acrobia	and Total Fungi - 3	lote 10 comple	2.00
Test Code: IVID-U	UO Test des	cription:	and rotal rungi- s	iots to sample	5 ta.
Special Instructions:	Open sterile pouch a	and test all conte	ents		
Customer Signature:		igitally signed by Martin Singer ate: 2021.03.17 10:07:57 -04'00'	_{Date:} 17M	AR2021	
oustomer orginature.	<u> </u>	LUL 1.00.11 10.01.01 -04 00	Date.	·	

NEW WAVE ENDO						
TITLE Gamma Sterilization Rep	ntiation - M-Close™ Kit	Page 11 of 15				
DOCUMENT NO: RPT-0025A	REVISION: 01	CRCO: 210510-1	EFF DATE: 20 MAY 2021			

ATTACHMENT D

B/F Irradiation Record (3 units of Lot C1521-4 irradiated inside 1 of 7 cartons of Lot C2321)

(3 pages)

See also page 2 of 5 for DHR C1521-4 in Attachment B

STERIS: Gamma Certificate Of Processing

Prepared for: NEW WAVE ENDO (8908)
Gamma Process Run ID: 1063-2754A

Product Code	Lot Number	•	ЮМ	
M-Close 27-101	C2321	7 (ase ———————	
Processing Run Start Date: 30-Mar-21 02:21 AM		Approx. Downtime (hours): 0.10		
Processing Run End Date: 30-Mar-21 05:	25 AM			
Minimum Specified Dose (kGy):	30.0	Minimum Delivered Dose (kGy):	39.3	
Maximum Specified Dose (kGy):	50.0	Maximum Delivered Dose (kGy):	46.5	

Product meets Customer specifications; zero nonconformities occurred during this irradiation run.

Signature Manifest

Reviewed and E-Signed By: Jasmin Cuevas (QS & RC Technician I)

Date/Time E-Signed: 2021-03-30 10:49 AM

Document Content Revision: 1

Operating facilities is in compliance with applicable state and federal regulations (FDA, NRC, EPA, and OSHA) and provide services under a quality system which meets the requirements of FDA QSR, EN/ISO 13485, and in alignment with EN ANSI/AAMI/ISO 11137. STERIS certifies that these processed items received the indicated doses within the precision and accuracy of the dosimetry system used. Legal Entity: Synergy Health Sterilisation UK, a STERIS Company.

Processing Location

1880 Industrial Dr Libertyville IL 60048 Phone: 847-367-1911

GWI-08-006-15 Last Revised in Rel 2.0.0.0 Rel Date: 11/13/2018 Page 1 of 1

Document ID: 11452

1063-2754A

STERIS: Gamma Dosimetry Record NEW WAVE ENDO (8908)

Irradiator / Method: IR-139 - ON-STD

<u>Carrier</u>	Seq	Coordinate	Barcode ID	Insert	Instrument	Dose (kGy)	Final Dose (kGy)	Comment
1	1	1C1	0BZ608022366	TH0077	0391	39.7	39.7	
1	2	1C3	0BZ608022249	TH0077	0391	39.6	39.6	
1	3	1C5	0BZ608022273	TH0077	0391	40.0	40.0	
1	4	1CEOB	0BZ608022328	TH0077	0391	40.8	40.8	
1	5	1 E5	0BZ608022012	TH0077	0391	43.3	43.3	
1	6	2A5	0BZ608022350	TH0077	0391	45.4	45.4	
1	7	2 E5	0BZ608022024	TH0077	0391	45.2	45.2	
1	8	3A5	0BZ608022127	TH0077	0391	45.7	45.7	
1	9	3 E5	0BZ608022036	TH0077	0391	46.5	46.5	
1	10	4 E5	0BZ608022040	TH0077	0391	46.0	46.0	
1	11	9.8C5	0BZ608022339	TH0077	0391	40.1	40.1	
1	12	12.8C3	0BZ608022107	TH0077	0391	39.3	39.3	
1	13	12.8C5	0BZ608022037	TH0077	0391	39.8	39.8	
1	14	13CEOB	0BZ608022023	TH0077	0391	40.2	40.2	
1	15	15.7C3	0BZ608022050	TH0077	0391	40.4	40.4	
1	16	15.7C5	0BZ608022375	TH0077	0391	39.4	39.4	
1	17	17CEOB	0BZ608022347	TH0077	0391	40.3	40.3	
1	18	19C1	0BZ608022343	TH0077	0391	40.9	40.9	
1	19	21CEOB	0BZ608022352	TH0077	0391	41.0	41.0	
1	20	TBA5	0BZ608022390	TH0077	0391	42.2	42.2	
1	21	TBE5	0BZ608022359	TH0077	0391	41.8	41.8	

Minimum Dose for Record (kGy): 39.3 Maximum Dose for Record (kGy): 46.5 STERIS: Gamma Dosimetry Record

NEW WAVE ENDO (8908)

1063-2754A

Run ID

Irradiator / Method: IR-139 - ON-STD

Carrier

Seq Coordinate Barcode ID Insert Instrument Dose (kGy) Final Dose (kGy) Comment

Signature Manifest

Prepared By: Matthew Thornton (Operator I)

Date/Time E-Signed: 2021-03-30 09:16 AM

Document Content Revision: 1

Processing Location

1880 Industrial Dr Libertyville IL 60048 Phone: 847-367-1911

Document ID: 11430

Rel Date: 11/13/2018

NEW WAVE ENDO			
TITLE Gamma Sterilization Report	Page 12 of 15		
DOCUMENT NO: RPT-0025A	REVISION: 01	CRCO: 210510-1	EFF DATE: 20 MAY 2021

ATTACHMENT E

B/F Report for Lot C1521-4 (1 page)



LGGS Florida Technical Report Method Suitability Test – 3 Organisms

SPONSOR:	New Wave Endo 6601 Lyons Road, Coconut Creek, FL Attn: Martin Singer	33073		Lab No.: P.O. No.: Lot No.: Date Received:	20513 C1521-4		
Test Article:_	M-Close Kit, REF 27	7-101 Ste	rilized				
Condition of T	Test Article: Good						
5	sterility testing). Thre	e (3) 400n	nL SCDB cultu		wing successful completion of ope and three (3) 400mL THIO organism.		
S	SCDB cultures were i until positive for mic	ncubated obial grov	at 22.5 ± 2.5°C vth or for a m	and all THIO cultures waximum of five (5) day	ed into the culture medium. All vere incubated at 32.5 ± 2.5°C ys. The standard plate count geach test or control system.		
		1700					
Organism Bacillus st		ATCC	Population:	SCD Sample:	SCD Control:		
Bs 486109	94	6633	33	1+ / 04-05-21	1+ / 04-05-21		
Candida a Ca 44311		10231	24	1+ / 04-05-21	1+ / 04-05-21		
	s brasiliensis	16404	21	1+ / 04-05-21	1+ / 04-05-21		
Conclusion: Under the conditions of this USP test, bacteriostatic/fungistatic characteristics were not							
	shown to be asso	ciated wit	h the test artic	le.			
Comments: _	None			*			
Deviations: None							
Date: 04-05-21 Tech: LY/VS Approved by: Luu Hung. Technical Manager (or deputy)							

NEW WAVE ENDO						
TITLE Gamma Sterilization Report	iation - M-Close™ Kit	Page 13 of 15				
DOCUMENT NO: RPT-0025A	REVISION: 01	CRCO: 210510-1	EFF DATE: 20 MAY 2021			

ATTACHMENT F

Bioburden Recovery Validation Final Report

(6 pages)



Lab No. F21-0583-01

FINAL REPORT

Bioburden Recovery Validation of New Wave Endo Surgery's M-Close Kit, REF 27-101

SPONSOR:

New Wave Endo Surgery 6601 Lyons Road, Unit D8 Coconut Creek, FL 33073

PREPARED BY:

LGGS Florida, Inc. 15370 County Road 565A, Suite A Groveland, FL 34736

FINAL REPORT

Bioburden Recovery Validation of New Wave Endo Surgery's M-Close Kit, REF 27-101

SPONSOR:

New Wave Endo Surgery 6601 Lyons Road, Unit D8 Coconut Creek, FL 33073

Purpose:

The purpose of this study was to establish exhaustive bioburden recovery efficiency percentages and document estimated recovery efficiencies for New Wave Endo Surgery's M-Close Kit, REF 27-101

Materials:

- A. Device(s) intended for testing
- B. Other materials as specified in the bioburden test specification

III. Background:

Bioburden is defined as the population of viable microorganisms present in or on a finished product just prior to sterilization.

Recovery of microorganisms from product during bioburden test procedures may be accomplished utilizing several methodologies. The choice of an appropriate procedure and recovery fluid depends upon product design and composition. The chosen recovery method must be validated to determine efficacy and reproducibility for each product or family of products. During the validation procedure, a recovery factor must be determined, however, it may not be necessary to apply the recovery factor for routine use in some situations.

For the purpose of enumerating bioburden levels associated with the for New Wave Endo Surgery's M-Close Kit, REF 27-101, a combined extraction procedure incorporating 10 minutes of sonication at a nominal frequency of 24 KHz followed by 30 minutes of shaking on a mechanical shaker, yielding 170-240 oscillations per minute, was selected. This procedure (sonication/shaking) has historically resulted in maximum recovery using diverse product materials and configurations and was selected for use with the New Wave Endo Surgery's M-Close Kit, REF 27-101, due to the thickness of product which prevents blending and the absence of attributes which would be expected to interfere with the effectiveness of standard industrial immersion/shake recovery techniques.

Products were processed using the largest possible SIP of 1.0 (entire device).

The extraction fluid chosen for these tests was Phosphate Buffered Water (PBW) which was employed due to its neutral pH, osmolarity and buffering capacity. Additionally, PBW has been demonstrated to neither promote nor inhibit growth of microorganisms.

Total aerobic bioburden was enumerated utilizing Tryptic Soy Agar (TSA) and incubation periods of 72 hours. Total Fungi was enumerated using Saboraud Dextrose Agar (SDA) and incubated at 20-25°C for 120 hours. The membrane filtration technique was employed.

Products represented in routine bioburden auditing were reviewed in this study. Changes in procedures or product will be evaluated for impact on recovery efficacy and will be revalidated if necessary.

The method chosen to review bioburden recovery efficacy during this study was the exhaustive recovery method. Although the spore inoculation method is a widely used validation method, severe limitations such as encrustation, adhesion of the suspension, spore clumping (especially with silicone surfaces), standard deviation of the inoculum and lack of information comparing spore inoculation to natural bioburden attachment, make it undesirable for this evaluation.

Exhaustive recovery required performing the entire extraction procedure on each device two (2) additional times following its original extraction. Each time, the extraction fluid was totally removed from the device and enumerated. The results accumulated from the consecutive recoveries were then analyzed. The efficacy was then estimated based upon the initial device counts and the estimated final device counts.

IV. Results:

A. Total Aerobic Bioburden

Treatment	1	2	3	4	5	Mean Colony Average
1	26	22	30	32	18	25.6
2	6	8	8	6	12	8.0
3	0	0	0	0	0	0.0
Total Colony Count	32	30	38	38	30	

	1	2	3	4	5
First Treatment	26	22	30	32	18
Total	32	30	38	38	30
% Removal	81.3	73.3	78.9	84.2	60.0

Average Recovery:

75.5

(5 samples)

Correction Factor: 100/77.5 = 1.3



Lab No. F21-0583-01

Page 3 of 3

B. Total Recoverable Fungi

Treatment	1	2	3	4	5	Mean Colony Average
1	16	12	12	6	26	14.4
2	6	4	2	2	6	4.0
3	0	0	0	0	0	0.0
Total Colony Count	22	16	14	8	32	

	1	2	3	4	5
First Treatment	16	12	12	6	26
Total	22	16	14	8	32
% Removal	72.7	75.0	85.7	75.0	81.2

Average Recovery:	81.2	(5 samples)	Correction Factor: 100/81.2 =	1.2

٧. References:

 A. LGGS Inc. Bioburden Specification.
 B. ANSI/AAMI/ISO 11737-1, <u>Sterilization of Healthcare Products-Microbiological Methods-Part</u> 1: Determination of the Population of Microorganisms on Product, Association for the Advancement of Medical Instrumentation, 2018.

VI. Approvals:

Prepared by: Valeru Salvati	Date: 3-31-21
Approved by: Cum Quirica	Date: 3-31-2
Approved by: Martin Angel	Date: DIAPRZOZI



SPONSOR:	New Wave Endo	La	b No.:	F21-0583-00	
	6601 Lyons Road, Unit	D8 P.C). No.:	20504 C1521-1	
	Coconut Creek, FL 330	73 Lo	ot No.:		
	Attn: Martin Singer	Date Rec	Date Received:		
Test Article:	M-Close Kit, REF 27-10	01			
Condition of T	est Article at Receipt:	Good			
Procedure: Fo	or complete details, see E	Bioburden Test Specification No	B-NW	E-001-00	

Wash 1:

Results:	Sample Number	Total Recoverable Aerobic Bioburden as CFU's per sample	Total Recoverable Fungi Bioburden as CFU's per sample
	1	26	16
	2	22	12
	3	30	12
	4	32	6
	5	18	26
Number of	Products Tested:	5	5
Ave. Colony Forming Units:		25.6	14.4
Standard D		5.7	7.4
PBW Negat	tive Control:	Negative	Negative



Wash 2:

Results:	Sample Number	Total Recoverable Aerobic Bioburden as CFU's per sample	Total Recoverable Fungi Bioburden as CFU's per sample
	1	6	6
	2	8	4
	3	8	2
	4	6	2
	5	12	6
Number of I	Products Tested:	5	5
Ave. Colony Forming Units:		8.0	4.0
Standard D		2.4	2.0
PBW Negat	ive Control:	Negative	Negative

Wash 3:

Results:	Sample Number	Total Recoverable Aerobic Bioburden as CFU's per sample	Total Recoverable Fungi Bioburden as CFU's per sample
	1	<2	<2
	2	<2	<2
	3	<2	<2
	4	<2	<2
	5	<2	<2
Number of Prod	ducts Tested:	5	5
Ave. Colony Forming Units:		0.0	0.0
Standard Devia	ition:	0.0	0.0
PBW Negative	Control:	Negative	Negative

Comments:	None				
Deviations:	None				
Completed:	03-31-21	Tech:	DJ/VS	Approved by:	Technical Manager or Deputy

NEW WAVE ENDO						
TITLE Gamma Sterilization Report- Dose Substantiation - M-Close™ Kit Page 14 of 15						
DOCUMENT NO: RPT-0025A	REVISION: 01	CRCO: 210510-1	EFF DATE: 20 MAY 2021			

ATTACHMENT G

Verification Dose Applied (7 pages)

Certificate of Processing



Radiation Request ID: 45389

P.O. #: 20511



11-14 ID	W			Dose in Kilogray (in kGy)				
Unit ID	Item Information	Quantity	<u>UOM</u>	Specified Dose		Delivered Dose		Exposure Time
				Min.	Max.	Min.	Max.	In Minutes
001	Product Code: See Customer Item ID Cust Item ID: 27-101 Lot Number: D0521 Description: M-Close Kit Comments: Product Meets Customer specifications; zero nonconformities occurred during this irradiated run	1	CS	10.20	12.40	10.29	10.65	73

Signature Manifest

Reviewed and E-Signed By

Herolt, Daniel (QS & RC Technician I)

Document Content Revision: 1

Signed On 4/16/2021 at 8:28 AM UTC / GMT Offset (hh:mm): -5:00

Processing Location: STERIS

Radiation Technology Center 2500 Commerce Drive Libertyville, IL 60048 Phone: 847-247-4782

Operating facilities are in compliance with applicable state and federal regulations (FDA, NRC, EPA, and OSHA) and provide services under a quality system which meets the requirements of FDA QSR, EN/ISO 13485, and in alignment with EN ANSI/AAMI/ISO 11137. STERIS certifies that these processed items received the indicated doses within the precision and accuracy of the dosimetry system used.



STERIS Dosimetry Record

Prepared for NEW WAVE ENDO Radiation Request ID 45389

Date Prepared: 4/16/2021 8:26:45AM

Processing Location:

Radiation Technology Center

Irradiator:

234, Nordion Cobalt-60 Irradiator #234

Unit ID: 001

1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Esta dos nos ornatos atabasero.						Final
Coordinate	Barcode ID	Read By	Read Date	Insert	Instrument	Dose (kGy)	Dose (kGy)
TC	0BX592073974	wwitcraf	04/15/2021 19:37:15	TH0075	0152	10.65	10.65
RBL	0BX592073980	wwitcraf	04/15/2021 19:34:40	TH0075	0152	10.33	10.33
EC	0BX592073985	wwitcraf	04/15/2021 19:38:38	TH0075	0152	10.29	10.29
FBR	0BX592001356	wwitcraf	04/15/2021 19:39:12	TH0075	0152	10.31	10.31
FTL	0BX592073975	wwitcraf	04/15/2021 19:37:53	TH0075	0152	10.55	10.55

Minimum Dose for Unit (kGy):

10.29

Maximum Dose for Unit (kGy):

10.65

Signature Manifest



Prepared By:

Walter Witcraft (Radiation Technician II)

Approved By:



Herolt, Daniel (QS & RC Technician I)

Document Content Revision: 1

Signed On 4/15/2021 at 2:39 PM UTC / GMT Offset (hh:mm). -5:00

Signed On 4/16/2021 at 8:26 AM UTC / GMT Offset (hh:mm): -5:00

STERIS AST Radiation Technology Center Phone: (847) 247-4782
Email: RadiationTechTeam@steris.com

45389

05/04/2021 Document ID: 10338z

RADIATION REQUEST FORM

Radiation Center

Gamma - Americas (Libertyville, Illinois Radiation Technology Center)

STEP 1: Contact Details

PO#

20511

Email

martin.singer@newwaveendo.com

Additional Emails

martin.singer@newwaveendo.com

Product Received From (Originator):

Originator Company Name

New Wave Endo

Originator Address

6601 Lyons Road Unit D8 Coconut Creek, Florida 33073 United States

Originator Contact Name

Martin Singer

Originator Email

martin.singer@newwaveendo.com



STERIS AST Radiation Technology Center Phone: (847) 247-4782
Email: RadiationTechTeam@steris.com

45389

05/04/2021 Document ID: 10338z

Originator Phone 9548060032

Product Belongs to (Customer):

Customer Contact DetailsSame as Originator

Send Invoice to (Party to be billed):

Invoice Contact DetailsSame as Originator

Ship Irradiated Product to:

Ship Irradiated Product to None of the Above

Ship to Company Name LGGS Florida

Shipping Address and Company Name 15370 CR 565A Suite A Groveland, FL 34736 United States

Shipping Contact Name Ann Quiroz

Shipping Email lggsflorida@vahoo.com 45389

05/04/2021 Document ID: 10338z

STERIS AST Radiation Technology Center Phone: (847) 247-4782
Email: RadiationTechTeam@steris.com

Shipping Phone

3522420057

STEP 2: Recipient of Transmittal Information

Original Certificate of ProcessingOriginator

Copy of Certificate of ProcessingOriginator

Dosimetry Record? Yes

Radiation Request Form returned to

Originator

STEP 3: Shipping Information

Ship Via

Customer arranged courier

Select courier

UPS

UPS Shipping

2 Day Air

UPS Account #

59087E



STERIS AST Radiation Technology Center Phone: (847) 247-4782
Email: RadiationTechTeam@steris.com

45389

05/04/2021 Documerat ID: 10338z

STEP 4: Test Details

Type of Testing

Dose Verification (Dose Audit/Dose Establishment)

Protocol

No

Product Classification

Medical Device

Certification/License Requirements

ISO11137

Hazardous Material?

No

STEP 5: Product Information

Internal Dosimeter

Some package configurations may require the placement of an internal dosimeter to monitor the minimum dose location. I hereby give approval to place internal dosimeters as needed. If product is packaged in a manner that will not allow the placement and retrieval (post-irradiation) of an internal dosimeter, I give approval to repackage the contents or open any secondary packaging to accommodate this placement as needed.

Product Information

# of Carto ns	Dimension s (L x W x H)	Weig ht	Dose Range Min (kGy)	Dose Range Max (kGy)	Lot Numbe r	Produc t Code	Descript ion
---------------------	-------------------------------	------------	----------------------------	-------------------------------	-------------------	------------------	-----------------



STERIS AST Radiation Technology Center Phone: (847) 247-4782 Email: RadiationTechTeam@steris.com

45389

05/04/2021 Document ID: 10338z

M-Close 7 10.2 12.4 13 X 13 X 13 D0521 27-101 Kit

Special Instructions

Open shipper box and remove three 5-unit boxes for irradiation dosing. Following irradiation. replace back into shipper box and forward to LGGS Florida for sterility test.

Processing Information

Routine Processing (4-7 business days) \$1610.00

STERIS AST Quote Provided By: Josh	STERIS	AST Q	uote	Provided	By:	Josh Zerr
------------------------------------	---------------	-------	------	-----------------	-----	-----------

Date: 4/5/21

(Provided quote good for 30 days)

Martin Singer, Director of Quality M Anger **Customer Approval Signature:**

Date: 05 APR 2021

(Product cannot be processed without a signature)

Net Terms 30 days, unless otherwise contracted

Please sign AFTER STERIS AST has completed pricing information & has faxed to you for your approval... THANKS, STERIS AST liability under RRF limited to \$500 unless otherwise specified in processing agreement. In no event shall STERIS AST be liable for any special, consequential, or exemplary damages.

STERIS AST Quality Assurance Reviewed By: 7

Date: 48.21

NEW WAVE ENDO						
TITLE Gamma Sterilization Rep	Page 15 of 15					
DOCUMENT NO: RPT-0025A	REVISION: 01	CRCO: 210510-1	EFF DATE: 20 MAY 2021			

ATTACHMENT H

Sterility Test Result for Lot D0521

(2 pages)

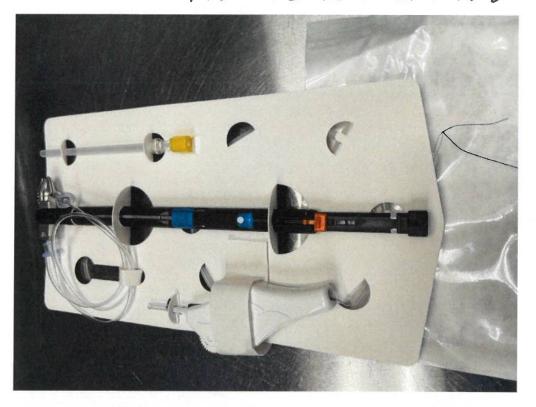


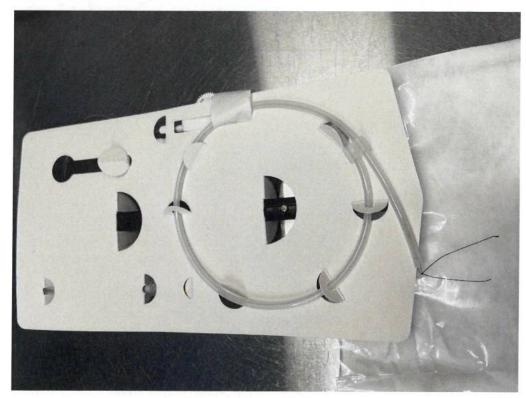
Page 1 of 1

LGGS Florida, Inc. Technical Report

SPONSOR:	New Wave Endo		Lab No.:	F21-0723-00			
	6601 Lyons Road, Unit D8		P.O. No.:	20512			
	Coconut Creek, FL 3		Lot No.:	D0521			
	Attn: Martin Singer		Date Received:	04-20-21			
	Testin		rility Test □ Method When Applicabl	e			
Test Article:	M-Close Kit, REF 27-	101			7		
Condition of To	est Article at Receipt:	Good					
Test Article Su	bmitted:						
No. of Products	3:	No. Spore S	trips:	No. Inoculate			
10	0		N/A		V/A		
Test Start Date	ş.	Test Termin	ation Date:	Proc./Test M	ethod Used:		
04-2			05-05-21		-001-00		
Sterility Test Results Note: Test Article Identity Maintained as Submitted by Sponsor							
No. Positive:	No. Articles Subr	nitted:	Articles Tested:	(ml) SCDB:	(ml) FT		
0	10		WP	400	N/A		
Test Article as	s submitted found to be	e: Sterile					
			Media Lot: <u>C3032</u>	321			
NS=Not Suppl	ied SCD	B=Soybean C	asein Digest Broth	FT=Fluid TI	nioglycollate		
Comments: _	None						
Deviations: _	None						
Completed: _	05-05-21 Tech:	LY/VS App		wicz	donubil		
			lechi	ical Manager (or	aeputy)		

LOT DOSZ/ TOP SIDE CARD MOUNTING





REVERSE SIDE GARD MOUNTING